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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,394	09/27/2003	Fred Hoffman	28679/05100	2393
24024	7590	12/05/2005	EXAMINER	
CALFEE HALTER & GRISWOLD, LLP 800 SUPERIOR AVENUE SUITE 1400 CLEVELAND, OH 44114			GRAVINI, STEPHEN MICHAEL	
			ART UNIT	PAPER NUMBER
			3749	

DATE MAILED: 12/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>Interview Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/605,394	HOFFMAN ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Stephen Gravini	3749	

All participants (applicant, applicant's representative, PTO personnel):

(1) Stephen Gravini (PTO pers). (3)\_\_\_\_\_.

(2) Mark Hull (appl rep). (4)\_\_\_\_\_.

Date of Interview: 28 November 2005.

Type: a) ☒ Telephonic b) ☐ Video Conference  
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.  
If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 1,10,11,14-16 and 21.

Identification of prior art discussed: Dossaji.

Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: The proposed amendment and discussion points appears to place the claimed invention in condition for allowance. A further search of prior art and any interfering application would be necessary and applicants would be contacted if any claims would not be allowable over any newly discovered references.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Stephen Gravini  
Examiner's signature, if required

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

#### Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

**CALFEE****Facsimile Cover**

**Date:** November 21, 2005  
**To:** Stephen Gravini  
**Fax Number:** 571-273-4875  
**Send Only to the Above Fax Number:** X  
**Confirmation Phone Number:**

**From:** Mark R. Hull  
**Direct Dial Phone Number:** 216.622.8419

**Client Number:** 28679 **Matter Number:** 05100 **Client Name:** Bendix Commercial Vehicle Systems

**Number of Pages:** 6

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**Message:**

10:00 am  
11/28 M  
interview

4 745 868 Seabury

6 923 084 Chandra

6 944 967 Skye

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**Fax Operator's Initials:**

**Sent By:** WV  
**Time:** 2:16

**Logged By:** \_\_\_\_\_  
**Time:** \_\_\_\_\_

In re application of:	)	Examiner:	S. Gravini
Hoffman et al.	)		
Serial No.:	)	Art Unit:	3749
10/605,394	)		
Filed:	)	Confirmation No.:	2392
September 27, 2003	)		
For:	)	Attorney Docket No.:	28679/05100
AIR DRYER MOUNTING	)		
ASSEMBLY	)		(02-048US)

Dear Sir:

Attached, please find my informal comments and potential amendments for our upcoming telephone interview on November 28, 2005. If you have any questions regarding the information in the attached document, please feel free to contact me at the telephone number below. I look forward to discussing the application with you on Monday.

Sincerely,



Mark R. Hull  
Reg. No. 54,753  
(216) 622-8419

Application No.: 10/605,394  
Examiner: S. Gravini

Attorney Docket No.: 28679/05100 (02-048 US)

**Discussion Points for Examiner Interview – NOT TO BE ENTERED IN RECORD**  
**Interview Scheduled for November 28, 2005 at 10:00am.**

**General:**

In my opinion, the invention is patentably distinct over the references cited. I would welcome any suggestions regarding claim language that captures these distinctions.

The proposed amendments below incorporates four ideas as to possible distinctions:

- 1) The fastener extends through a through bore in the manifold or is inserted through the through bore. This attempts to distinguish over, for example, the threaded valve in Dossaji.
- 2) Air flowing in the bore flows external or around the fastener. This again looks to distinguish from the fasteners that have bore internal passages, such as Dossaji's valve 14.
- 3) The reservoir or purge volume is external to the air dryer. The reservoir noted in the Office Action for most of the references appears to be part of the desiccant cartridge.
- 4) A fastener is used to mount the air dryer onto a reservoir or a vehicle and this fastener differs from the threaded portion used to mount the desiccant cartridge onto the manifold.

**Claim 1:**

Comment: I still do not understand the Office Action's position that the fastener 14, 18 of Dossaji connects the manifold to an external reservoir (as discussed in Col. 4, line 40), however, to move the application forward, please consider the proposed amendment below:

1. (Proposed amendment) An air dryer mounting assembly comprising:

an air dryer including a manifold and a desiccant cartridge, wherein said manifold includes a threaded portion for connecting to said desiccant cartridge;

a bore running through said manifold; and

a fastener disposed in said bore, wherein air flow passing through the air dryer flows within the bore, external to the fastener, intersects the bore and communicates to an external purge volume, wherein said fastener connects said air dryer manifold to the external purge volume.

**Claim 10:**

Comment: The proposed amendment below attempts to indicate that the threaded portion connecting the manifold to the desiccant cartridge differs from the fastener connecting the manifold to the purge volume. In addition it indicates that the fastener is inserted through the bore.

10. (Currently amended) An air dryer comprising:

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a manifold, wherein said manifold includes a bore ~~for insertion of a mounting fastener~~  
and a first fastener threaded portion; and

a spin-on desiccant cartridge, which connects to said first fastener threaded portion of  
said manifold,

wherein said manifold bore communicates air between the air dryer and a purge volume,  
and wherein a second fastener inserted through said bore ~~said mounting fastener~~ connects said air  
dryer manifold to the purge volume.

#### Claim 11

Comment: Same comment as claim 10.

11. (Currently amended) An air dryer for a commercial vehicle comprising:

a manifold including a first fastener;

a desiccant cartridge mounted on the first fastener ~~a threaded portion of~~ said manifold;

and

a second fastener inserted through ~~disposed within a bore running through~~ said manifold;

wherein said second fastener is secured to a an outer surface of an enclosed reservoir.

#### Claim 14

14. (Original) A method of mounting an air dryer, comprising the steps of:

aligning an air dryer having a manifold coupled to a desiccant cartridge by a first fastener, with a reservoir such that one or more stabilizing mechanisms interlock to prevent rotation of the air dryer relative to the reservoir;

inserting a second fastener through the manifold and into a threaded member in the reservoir; and

tightening said fastener to said reservoir.

#### Claim 15

15. (Currently amended) A method of drying air in a compressed air system of a vehicle, comprising the steps of:

delivering a flow of air to an air dryer manifold with a desiccant bed canister attached to a threaded portion of said manifold;

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passing said flow of said air through the desiccant bed, thereby drying the air;  
delivering the dried air to a set of downstream components;  
purging the desiccant bed with a purge flow from a purge volume to regenerate the desiccant bed; and  
exhausting said purge flow after it has passed through said desiccant bed;  
wherein said purge flow passes from said purge volume via a bore in said manifold in which a fastener securing said air dryer to the vehicle ~~is disposed~~ inserted through;  
wherein said purge flow passes external to said fastener.

#### Claim 16

16. (Currently amended) An air dryer assembly comprising:

an air dryer including a manifold and desiccant cartridge connected to a threaded portion of said manifold; and

a means for securing said air dryer to an external air reservoir, wherein said external air reservoir includes a purge volume;

wherein means for securing said air dryer includes a means for communicating air between said air dryer and said purge volume and a fastening means disposed within said means for communicating air between said air dryer and said purge volume, said fastening means securing said air dryer to said air reservoir, wherein said air being communicated between said air dryer and said purge volume passes external to said fastening means.

#### Claims 17-20:

17-20. (Canceled)

#### Claim 21

Comment: The previous amendment (retained below) tried to distinguish between coupling to the outside of an enclosed reservoir and coupling to an open ended shell which becomes enclosed by the coupling of the air dryer to it. Do you have a recommendation on language that could make the distinction.



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21. (Previous amendment) An air dryer mounting assembly comprising:

an air dryer including a manifold and desiccant cartridge; and

an enclosed reservoir, wherein said air dryer is coupled to the outside of said reservoir, wherein said reservoir includes a mounting bracket that is coupled to a rail of a commercial vehicle, said rail of a vehicle having a height;

wherein said mounting bracket includes a height that is less than 75 percent of said rail height.